

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/066,090	NADLER ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	VAN H. NGUYEN	2194	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to applicant's amendments and supporting arguments filed 7/14/05.
2. ☒ The allowed claim(s) is/are 1-50.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

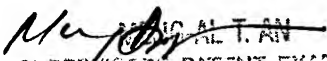
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                       |
| 2. <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                     | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance                         |
|   | 9. <input type="checkbox"/> Other _____.  |

  
 MICHAEL T. AN  
 SUPERVISORY PATENT EXAMINER  
 DATE: 7/14/05

***Examiner's Amendment***

I. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

II. Authorization for this examiner's amendment was given in a telephone interview with Mr. John A. Smart (Reg. No.34, 929) on September 29, 2005.

III. **The application has been amended as follows:**

**In the claims:**

**A. All previous copies of claims 1, 15, 30, and 42 have been replaced with the following clean copy of claims 1, 15, 30, and 42 as amended by the Examiner's amendment:**

**Claim 1.** A computer-implemented method for a client to make a remote method call on a service, the method comprising:

obtaining an interface definition of a particular service available to remote clients, said interface definition including runtime type information;

casting a generic interface class to said particular service for dynamically generating a proxy at runtime based on said generic interface class and said interface definition of said particular service for making a remote method call on said particular service; and

when a call is made by a client on said particular service, said proxy automatically making a remote method call on said particular service by performing the substeps of:

converting said call made by said client into a converted call in a wire format specified in said interface definition;

sending said converted call to said particular service using a method of transport specified in said interface definition;

in response to receipt of said remote method call in said particular service, deserializing said remote method call into native format;

invoking said particular service by making a native call on said particular service in native format; and

reserializing results of said native call on said particular service and returning said reserialized results in response to said remote method call.

**Claim 15.** A computer-implemented method for making a service available to remote clients, the method comprising:

creating an interface definition for a particular service, said interface definition including runtime type information;

implementing said interface definition as part of said particular service;

in response to a request received from a remote client on said particular service, using a dynamically generated proxy generated at runtime based on a generic interface class and said interface definition of said particular service for sending said request to said particular service in a format specified in said interface definition and automatically converting said

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request into a native call on said particular service; wherein the dynamically generated proxy converts said request into a particular wire format specified in said interface definition of said particular service and sends said request to said particular service using a method of transport specified in said interface definition of said particular service;

in response to receipt of said request in said particular service, deserializing said request into native format;

invoking said particular service by making a native call on said particular service in native format;

converting return values resulting from said native call on said particular service into a format appropriate for return to said remote client and sending said return values to said remote client.

**Claim 30.** A computer system for making a service available to remote clients, said system comprising:

an interface definition for a particular service to be made available to remote clients, said interface definition including runtime type information;

a dynamically generated proxy generated at runtime based on a generic interface class and said interface definition of said particular service for sending remote method invocations in a predetermined wire and transport format specified in said interface definition; wherein the dynamically generated proxy converts said remote method invocations into a wire format specified in said interface definition of said particular service and sends said remote method invocations in a transport format specified in said interface

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definition of said particular service;

a dispatcher module for listening for remote method invocations on said particular service, receiving said remote method invocations in said predetermined wire and transport format, deserializing said remote method invocations into native format, reserializing returned result values from native format into said predetermined wire and transport format, and returning said reserialized return values; and

an invoker module for making a native call on said particular service and returning result values from said native call.

**Claim 42.** A computer-implemented method for making a service available to remote clients, said method comprising:

developing an interface definition to a service to be made available to remote clients, said interface definition including runtime type information;

implementing said interface definition to create an implemented interface to said service, said implemented interface listening for requests on said service;

dynamically generating a proxy at runtime based on a generic interface class and said interface definition of said service for sending a remote method call to said service in a format specified in said interface definition; wherein said dynamically generated proxy converts said remote method call into a particular wire format specified in said interface definition of said service and sends said remote method call to said service using a method of transport specified in said interface definition of said service;

in response to receipt of said remote method call in said service, deserializing said

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remote method call into native format;

invoking said service by making a native call on said service in native format; and

reserializing results of said native call on said service and returning said reserialized results in response to said remote method call.

**B. Claims 51-59 have been cancelled**

IV. Any inquiry concerning this communication or earlier communications from the examiner should be directed to VAN H. NGUYEN whose telephone number is (571) 272-3765. The examiner can normally be reached on Monday-Thursday from 8:30AM - 6:00PM. The examiner can also be reached on alternative Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756.

The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.


Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**Any response to this action should be mailed to:**

Commissioner for patents  
P O Box 1450  
Alexandria, VA 22313-1450

VHN

  
MENG-AI T. AN  
SUPERVISOR, PATENT EXAMINER  
TECHNICAL CENTER